

**ABSTRACT OF THE INVENTION**

The invention provides a grafted antibody, or functional fragment thereof, comprising one or more complementarity determining regions (CDRs) having at least one amino acid substitution in one or more CDRs of a heavy chain CDR, where the grafted antibody or functional fragment thereof has specific binding activity for a cryptic collagen epitope. The invention also provides methods of using an antibody having specific binding activity for a cryptic collagen epitope, including methods of inhibiting angiogenesis, tumor growth, and metastasis.